SMM Server 1.0

User Manual

English

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1 What is SMM Server?

SMM Server, Short Message Manager Server, is a software to collect SMS messages coming from your Liebert HIROSS Air Conditioning Units (if equipped with *Microface*), directly through the GSM network (via *Hirolink SMM*).
Each message sent/received is recorded and managed in a powerful internal database system.
You can use also an internal complete Telephone directory (User data-base system) to manage your most frequently used phone numbers.
Then, the system will be able to recognise the name you saved in the User database when it receives new messages, and it will show you the user name directly.
There is also the possibility to configure a "System Administrator" profile inside SMM Server. Consequently the System Administrator will receive in every configured time interval a message in his mobile phone, in order to know that SMM Server is still alive and it is still working.

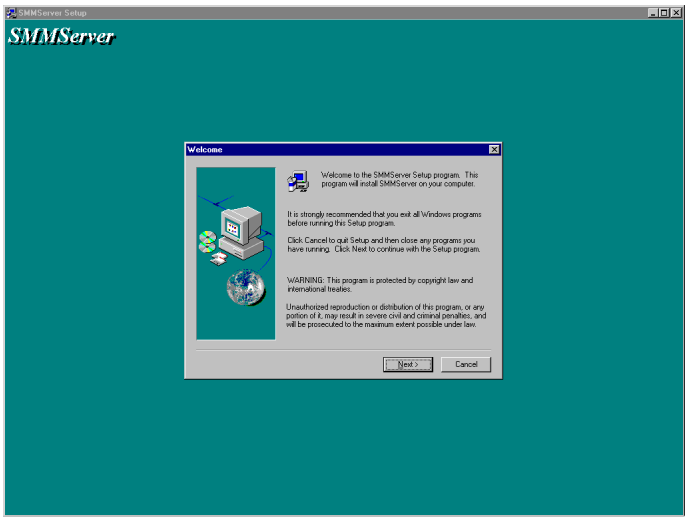
2 System Requirements

Everything you need is:

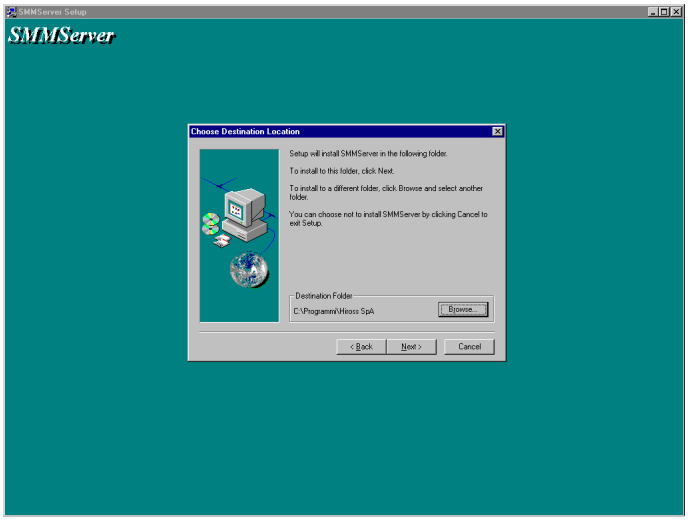
- a Personal Computer with Win95, Win98 or WinNT operating systems (the PC has to have at least 32 Megabytes of RAM and it should be equipped with a Pentium processor or better). You also need at least a serial COM port installed to connect the GSM modem to your PC and a CD Rom reader.
- a GSM modem – either WAVECOM WM01-G900 or WAVECOM WM02-G900.
- A SIM-card abilitated for SMSs

3 Installation

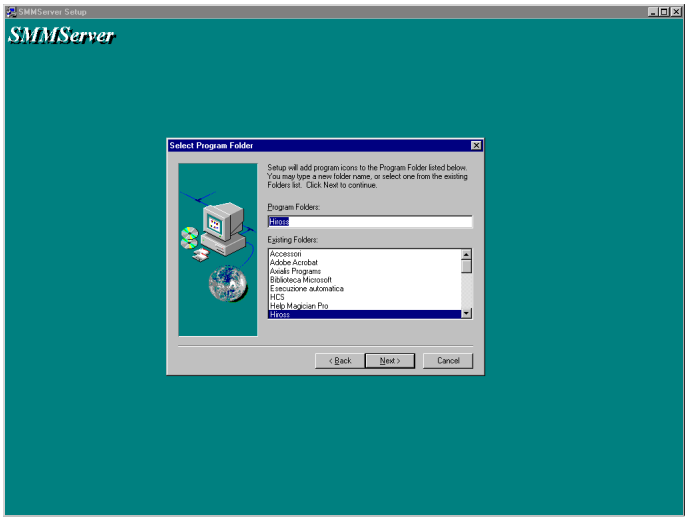
Before you start with SMM Server, you have to install the application.
To do that, insert your SMM Server CD in your drive, access it and run the file ***Setup.exe***.


SMMServer Setup
SMMServer
Welcome
Welcome to the SMMServer Setup program. This program will install SMMServer on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup program.
Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

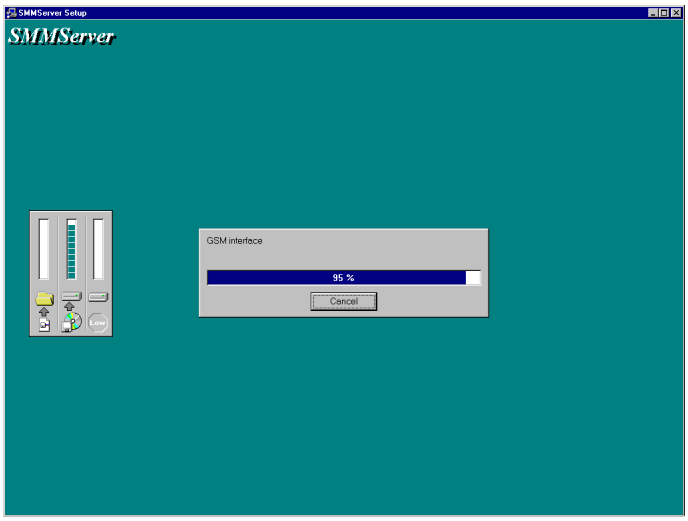
Press the ***Next*** button until the application show you the ***Choose Destination Location*** window, then choose the path where you want install your SMM Server copy through the ***Browse*** button, or accept the Destination folder that the system propose you.


SMMServer Setup
SMMServer
Choose Destination Location
Setup will install SMMServer in the following folder.
To install to this folder, click Next.
To install to a different folder, click Browse and select another folder.
You can choose not to install SMMServer by clicking Cancel to exit Setup.
Destination Folder
C:\Programmi\Hiross SpA
Browse...
< Back
Next >
Cancel

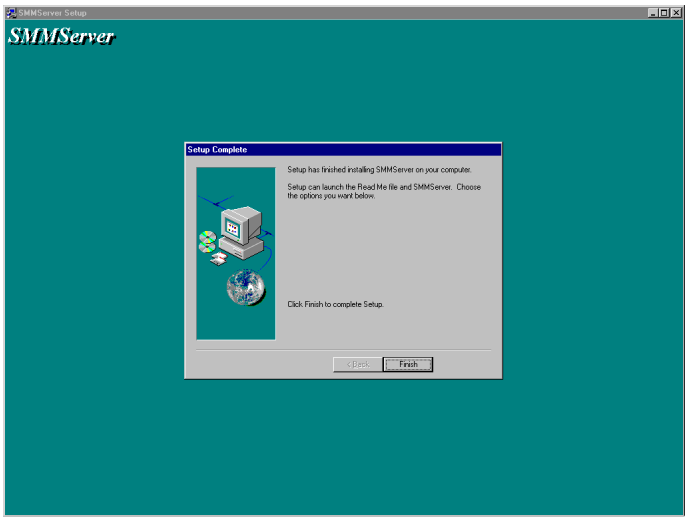
Press ***Next*** button again until the ***Select Program Folder*** window will be showed. Here you can choose the program folder where SMM Server start icon will be put.



Pressing the Next button, the installation process start.



When it is arrived at 100% you only have to press the ***Finish*** button, and SMM Server is ready to start.


SMMServer Setup
SMMServer
Setup Complete
Setup has finished installing SMMServer on your computer.
Setup can launch the Read Me file and SMMServer. Choose the options you want below.
Click Finish to complete Setup.
< Back
Finish

4 Concepts and User Interface

From the point of view of the concept, several structural blocks that are listed and described in the following compose the SMM Server.

4.1 Message

Message is the entity you can send or receive.
A message has some properties inside SMM Server.

They are:

- ***Archiving date***
- ***SMS date***
- ***Message (text)***
- ***User/PhoneNo.***

Archiving date is the time/date when the message is received/transmitted and saved in the Message database system.
This date/time is referred to your PC internal calendar.

SMS date is the time/date assigned by GSM network at the SMS message.

Message represents the information will be available on the receiver mobile phone (or in Hirolink SMM) when you are sending a message (Output box), or the information sent to SMM Server by a Hirolink SMM or by a remote user mobile phone when you are receiving a message (Input box).

You can see the message properties, in Input Box and in Output Box.

4.2 Message Editor

Message Editor is a dialog box where you can create a new message to send, or you can edit an existing message.
You can choose the receiver name from the User database system (by click on the list box), and you can type the message text.
Press ***Send now*** button to send immediately the message, or press the ***cancel*** button to refuse everything.

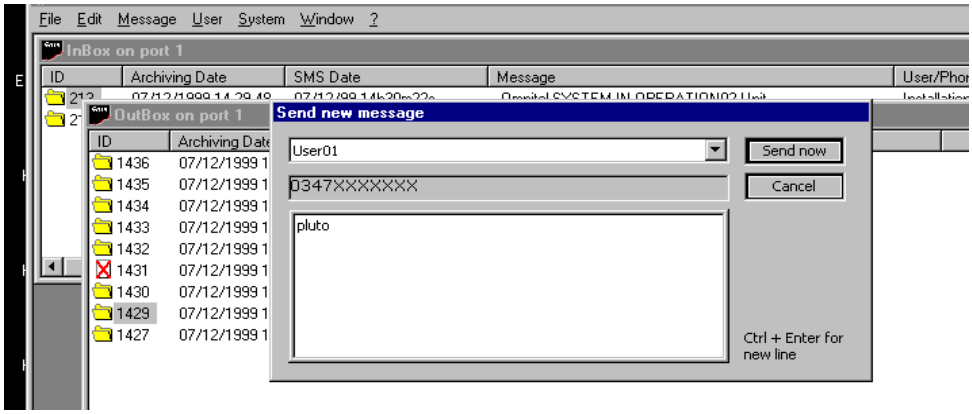


Figure 1 The message editor

See also Send a new message.

4.3 Input Box

Input Box is a queue where the received messages are put in: you can see here all the received messages properties.
If SMM Server isn't able to communicate with your GSM modem, the Input Box background colour will become red.
If everything is ok, the background colour will be normally white.
Mouse double-clicking on a message icon, causes that the ***message editor*** is showed.
In that way you can edit your message and send it again, if you want.
Remember: to receive messages you MUST have an Input box opened!
When SMM Server starts, it opens an Input Box for each port you have reserved.

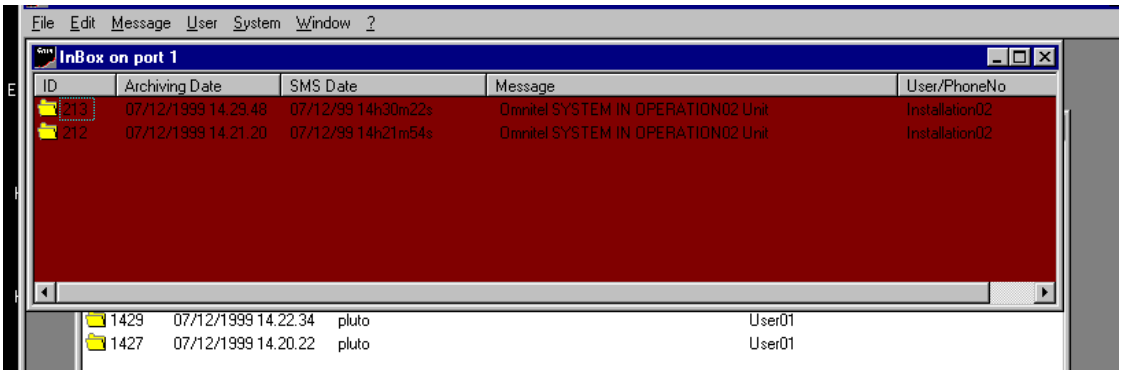

File Edit Message User System Window ?
InBox on port 1
ID
Archiving Date
SMS Date
Message
User/PhoneNo
213 07/12/1999 14.29.48 07/12/99 14h30m22s Omnitel SYSTEM IN OPERATION02 Unit Installation02
212 07/12/1999 14.21.20 07/12/99 14h21m54s Omnitel SYSTEM IN OPERATION02 Unit Installation02
1429 07/12/1999 14.22.34 pluto User01
1427 07/12/1999 14.20.22 pluto User01

Figure 2: InBox without a correct communication with GSM modem

See also Message Editor, Reserve a port, Reply to an incoming message.

4.4 Output Box

Output Box is a queue where the transmitted messages are put in: you can see here the transmitted messages properties.
If SMM server isn't able to send a message, it will mark that message with a red X icon on the Output box.
Otherwise, the sent message will be marked with a yellow opened folder icon.

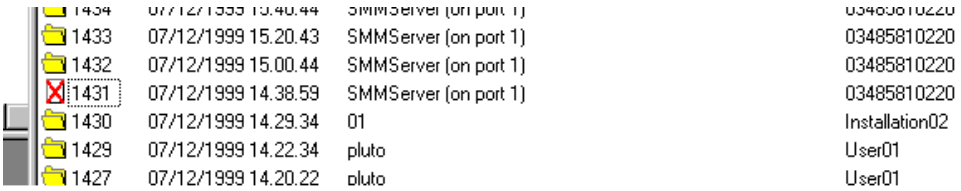


Figure 3: 1431 is a failed sent message

Mouse double-clicking on a message icon, causes that the ***message editor*** is showed.
In that way you can edit your message and send it again, if you want.

See also Message Editor, Send a new message.

4.5 Message data-base system

Message database system is the system that manages the messages queue.
The system itself saves for you the messages you have received/transmitted.
If you are the system administrator, you can remove messages after typing the SysAdm password.

See also Remove messages.

4.6 User data-base system

User database system is the internal *phone directory* of SMM Server.
You can add and remove users inside SMM Server (see below at Add/Remove Users).

4.7 Alive message

The *Alive Message* is a special message that can be periodically sent from SMM Server to the mobile phone number of the System Administrator. The System Administrator itself can define the content of the message as well as the frequency at which the *Alive Message* will be sent. The definition of the features of the *Alive Message* can be made entering the desired information in the SysAdm Properties dialog window (see later).
When the *Alive Message* arrives to the mobile phone of the System Administrator it is possible to deduce that the SMM Server is working well.

4.8 System Administrator

System Administrator is a special user.
He can receive the ***Alive Messages*** on his mobile phone in a time interval that can be set through the User/System Adm menu.
He can also remove data from the Message database system and from User database system, typing each time a password that can be set through the User/System Adm menu.

See also Configure the System Administrator properties.

4.9 User Interface

User interface looks like the following figure.

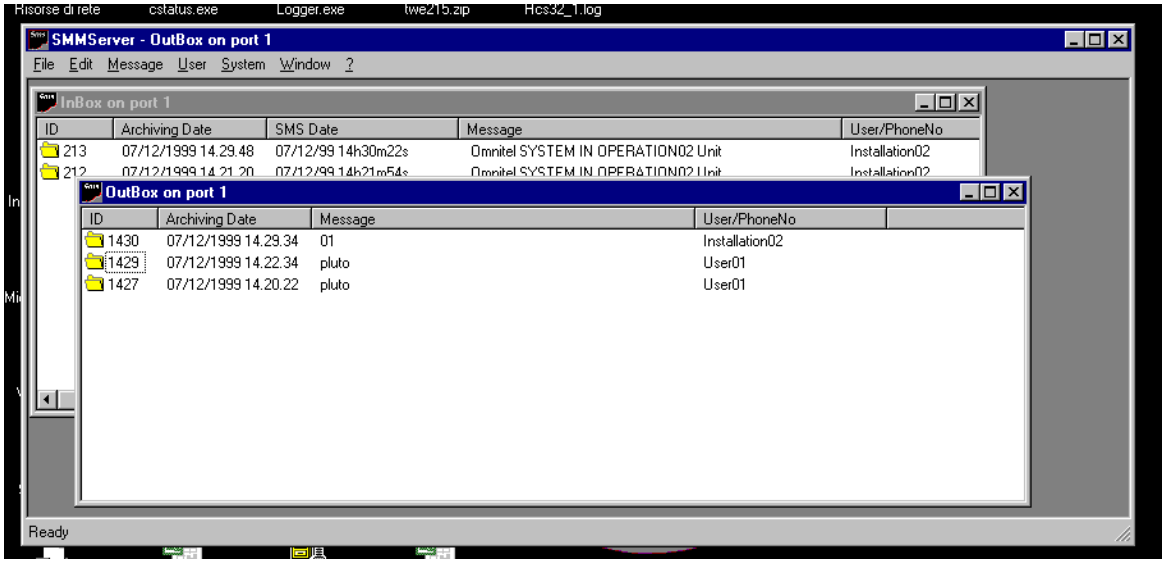

SMMServer - OutBox on port 1
File Edit Message User System Window ?
InBox on port 1
ID Archiving Date SMS Date Message User/PhoneNo
213 07/12/1999 14.29.48 07/12/99 14h30m22s Omnitel SYSTEM IN OPERATION02 Unit Installation02
OutBox on port 1
ID Archiving Date Message User/PhoneNo
1430 07/12/1999 14.29.34 01 Installation02
1429 07/12/1999 14.22.34 pluto User01
1427 07/12/1999 14.20.22 pluto User01
Ready

Figure 4 SMM Server user interface

In such situation, SMM Server is waiting for receiving messages in InBox on port 1, and it's ready to send new messages through the OutBox on port 1.

5 How to start

5.1 Reserve a port

To use SMM Server you need a GSM modem.
It should be connected to a serial port in your PC.
So, you have to indicate to SMM Server in which port you have connected your GSM modem.
You can do that through the System/Modem menu item.

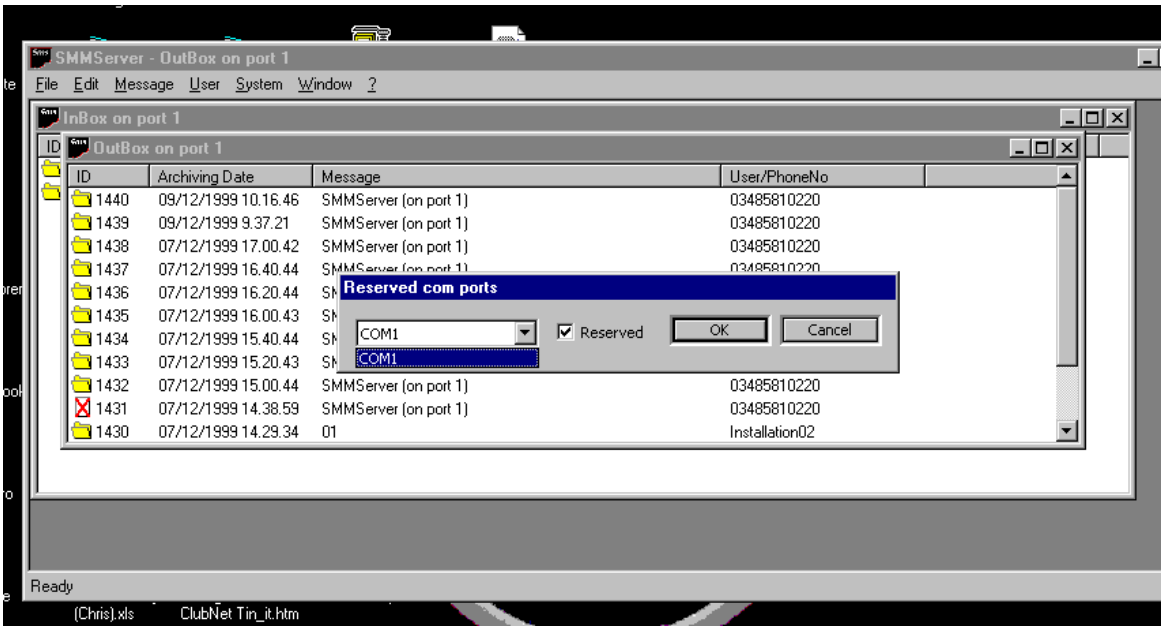


Figure 5 Reserve a port

Choose the serial port where you have the GSM modem connected from the list of all the available serial ports and then check the field "Reserved".
When you reserve a COM port, only SMM Server can use it.

5.2 Add/Remove Users

Adding a new user is very simple.
You have to access to the User/New menu item and you have to fill the fields "Name" and "Phone No".
The phone number must be in the international format. For example, if your user phone number is 034712345678, and it is an Italian mobile number, please put the number in this format: +3934712345678.
In this way the SMM Server will be able to show you the name of the user instead of his number.

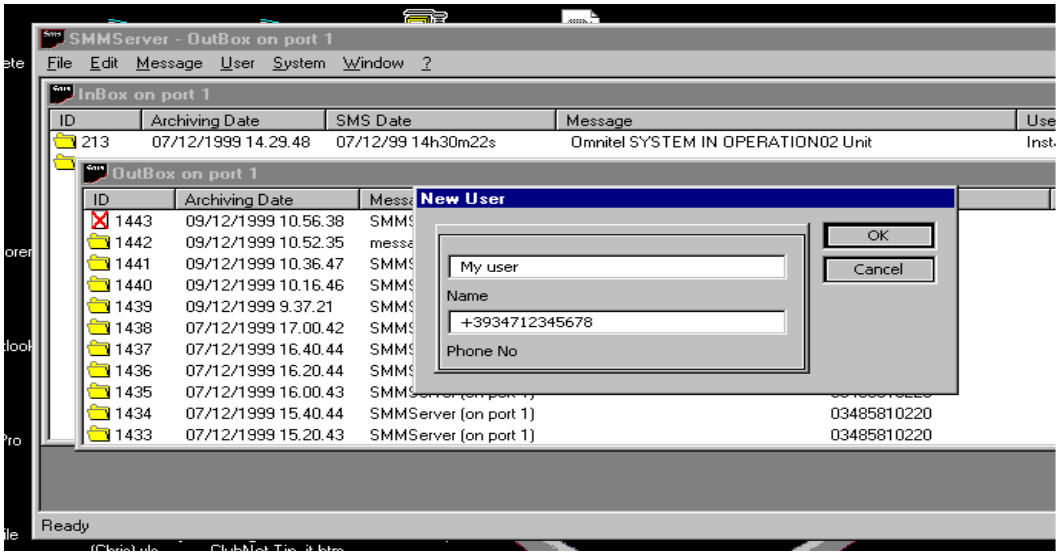


Figure 6 Add new user

Removing a user is very simple too (but you must be the Sys Administrator).

Access to User/Remove menu item.
SMM Server is asking for the Sys Administrator password now.
Type it and press OK.
Choose the user you want to remove, and press OK.

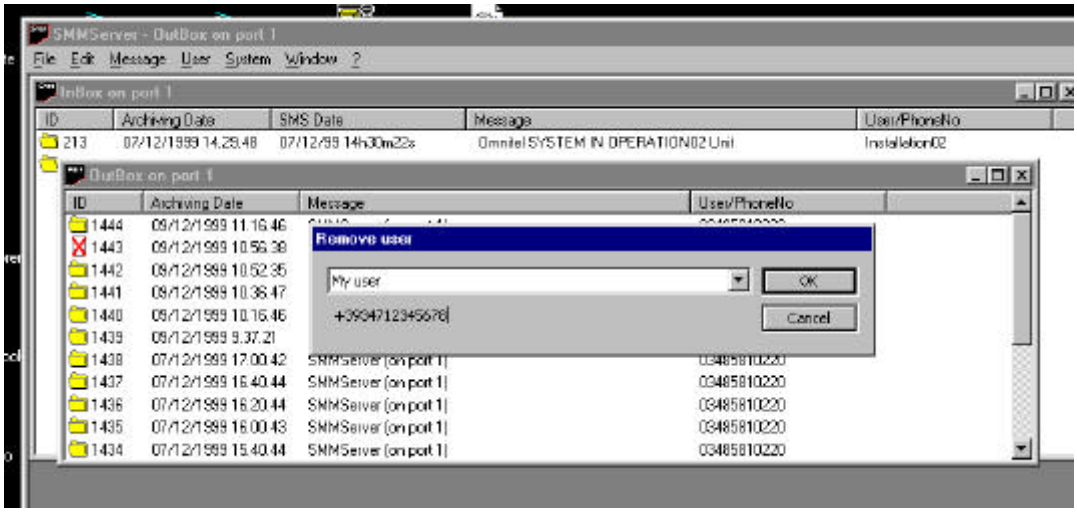
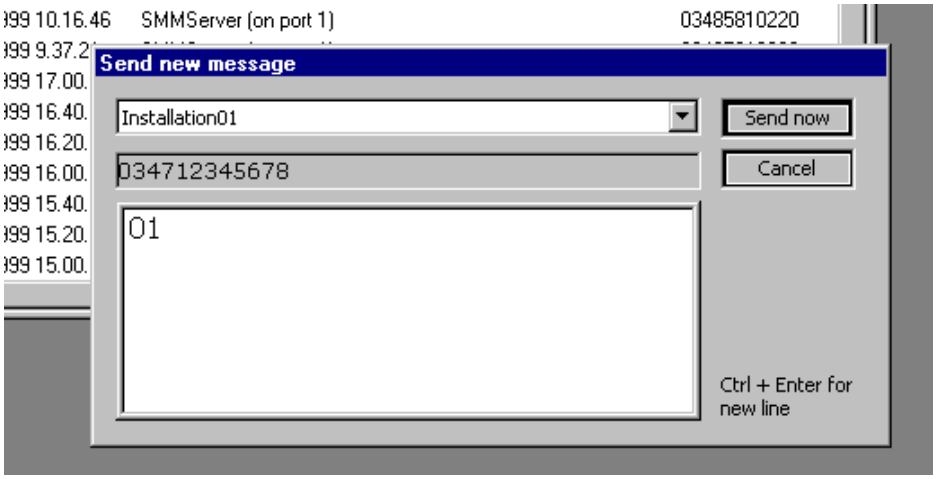


Figure 7 Remove user

5.3 Send a new message

To send a new message, the Output Box needs to be opened.
If it is not opened, open it through the Message/Out box menu item.
Now, you can access the Message/Send menu item.
It'll show you the message editor.
Choose the user to whom you want to send the message, and type the message text.
Press *Send now* button[1].



See also Message editor, Output Box.

5.4 Reply to an incoming message

SMM Server is able to reply to a message you have received.
By double – clicking on a received message icon in the Input box, or selecting a message in the Input box and accessing to Message/Reply menu item, SMM Server loads the Message editor with the received messages values (phone number and message text).
You can simply add the reply message text and then press *send now* button to reply.

[1] Hirolink SMM is able to reply at the "01" message giving information about its state (Hirolink SMM alive message).

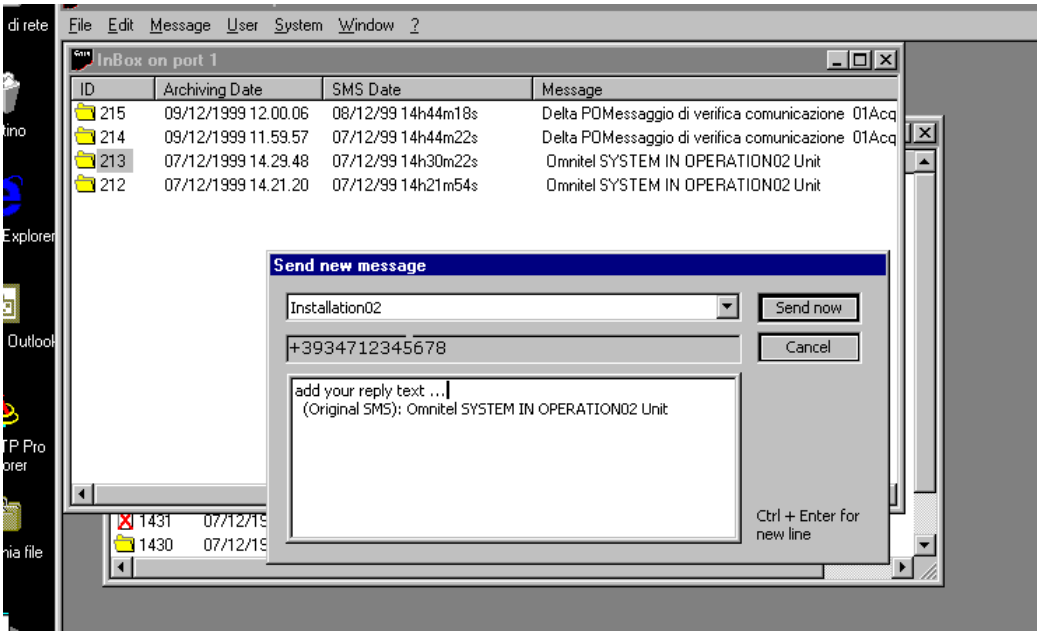

File Edit Message User System Window ?
InBox on port 1
ID Archiving Date SMS Date Message
215 09/12/1999 12.00.06 08/12/99 14h44m18s Delta POMessaggio di verifica comunicazione 01Acq
214 09/12/1999 11.59.57 07/12/99 14h44m22s Delta POMessaggio di verifica comunicazione 01Acq
213 07/12/1999 14.29.48 07/12/99 14h30m22s Omnitel SYSTEM IN OPERATION02 Unit
212 07/12/1999 14.21.20 07/12/99 14h21m54s Omnitel SYSTEM IN OPERATION02 Unit
Send new message
Installation02
Send now
+3934712345678
Cancel
add your reply text ...
(Original SMS): Omnitel SYSTEM IN OPERATION02 Unit
Ctrl + Enter for new line

Figure 8 Reply to an incoming message

See also Message editor, Input box, Send new message.

5.5 Remove Messages

You can remove transmitted or received messages from Output box/Input box.
Select with mouse the icons corresponding to the message(s) you want to remove.
Select Message/Delete menu item.
Type your Sys Administrator password and then press OK.

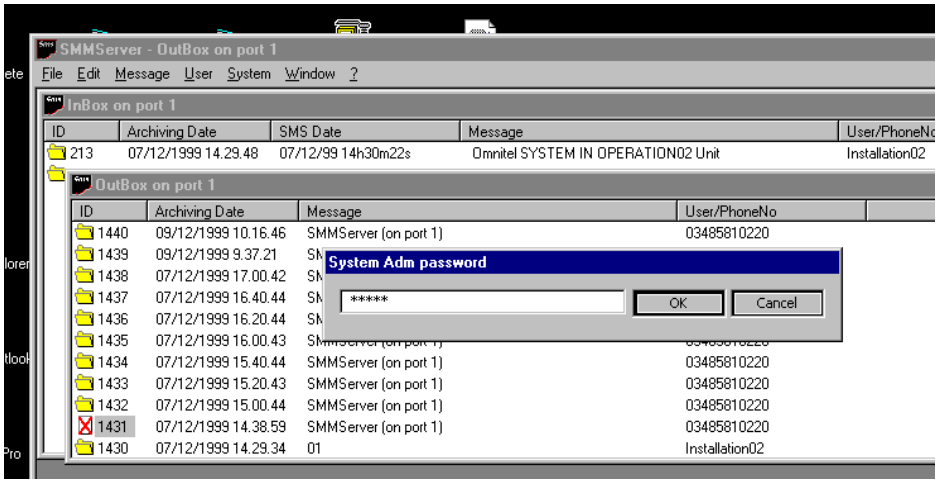

SMMServer - OutBox on port 1
File Edit Message User System Window ?
InBox on port 1
ID Archiving Date SMS Date Message User/PhoneNo
213 07/12/1999 14.29.48 07/12/99 14h30m22s Omnitel SYSTEM IN OPERATION02 Unit Installation02
OutBox on port 1
ID Archiving Date Message User/PhoneNo
1440 09/12/1999 10.16.46 SMMServer (on port 1) 03485810220
1439 09/12/1999 9.37.21
1438 07/12/1999 17.00.42
1437 07/12/1999 16.40.44
1436 07/12/1999 16.20.44
1435 07/12/1999 16.00.43
1434 07/12/1999 15.40.44 SMMServer (on port 1) 03485810220
1433 07/12/1999 15.20.43 SMMServer (on port 1) 03485810220
1432 07/12/1999 15.00.44 SMMServer (on port 1) 03485810220
1431 07/12/1999 14.38.59 SMMServer (on port 1) 03485810220
1430 07/12/1999 14.29.34 01 Installation02
System Adm password
*****
OK
Cancel

Figure 9 Remove a message from the Outbox

See also Input box, Output box, Message database system.

5.6 Configure the System Administrator properties

To insert or change the Sys Administrator properties, you have to access to User/System Adm menu item.
The first time you configure System Adm properties (just after the SMM Server installation), all System Adm properties fields are disabled: so, you have to introduce a password, pressing the *New Passwd* button.

Important: SMM Server will ask you for that password; remember it very well!

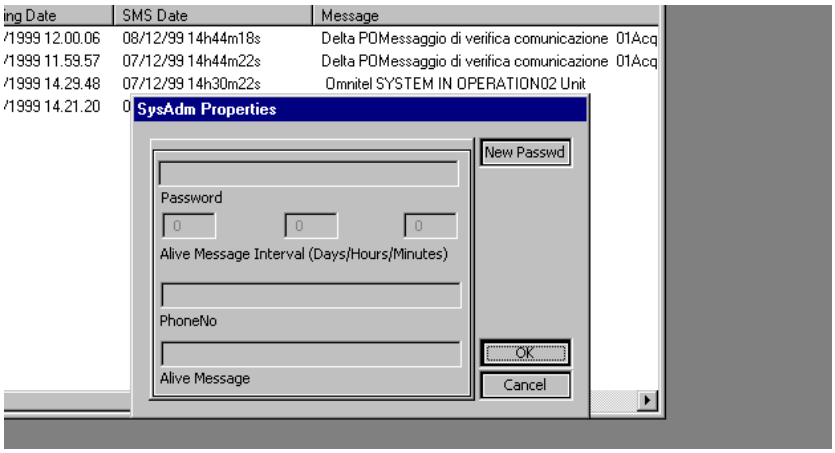


Figure 10 Insert a new password.

Next time that you will access to System Administrator properties, it will be enough to type the password on the *Password* field, and then press the *tab key* on your PC keyboard.
Everything will become unprotected, and you will able to edit all the fields.

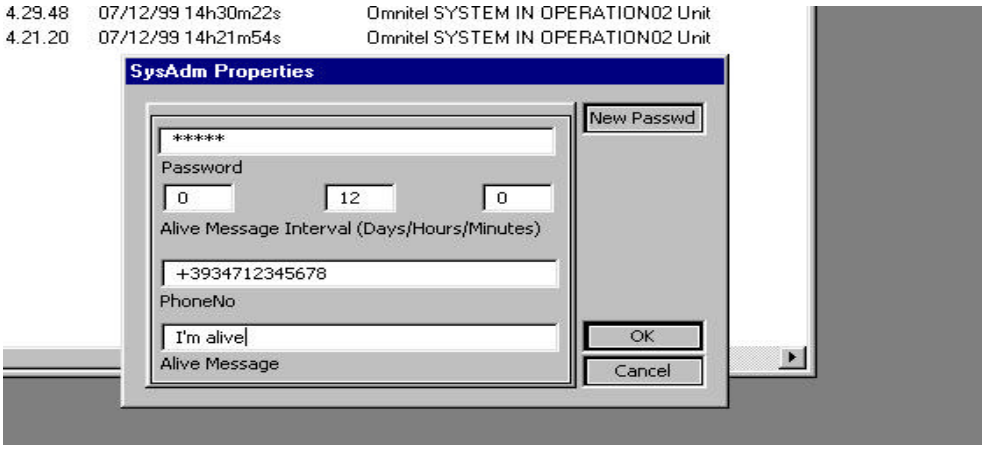


Figure 11 System Adm properties configuration.

The meanings of the fields are the following.

Alive Message Interval (Days/Hours/Minutes): it's the time interval when SMM Server will send the Alive Message;
PhoneNo: it's the mobile phone number to which SMM Server will send the alive message;
Alive Message: it's the message that SMM Server will send. SMM Server will add the text "*(on port x)*" to message text, to tell to Sys Adm in which serial port the system is working.

5.7 Print the received messages

SMM Server allows to print the received SMS messages.
It is possible to print all the messages received from a specific user or to print the whole archive.
In both cases, SMM Server will give a list of messages ordered by archiving date (i.e. the date/time when the message physically arrived to SMM Server, see par. 4.1).
In order to be able to print, you will have to install at least one system printer.
For further details, please refer to Windows™ technical documentation or to the network administrator.

5.7.1 Printer set-up

Once a printer has been set on your personal computer, you will have to access the menu File/Printer set-up to configure the properties of the printer itself (page format, page orientation, etc).
It is necessary to perform such operation only the first time you have to print or whenever you need to modify the current configurations of your printer.

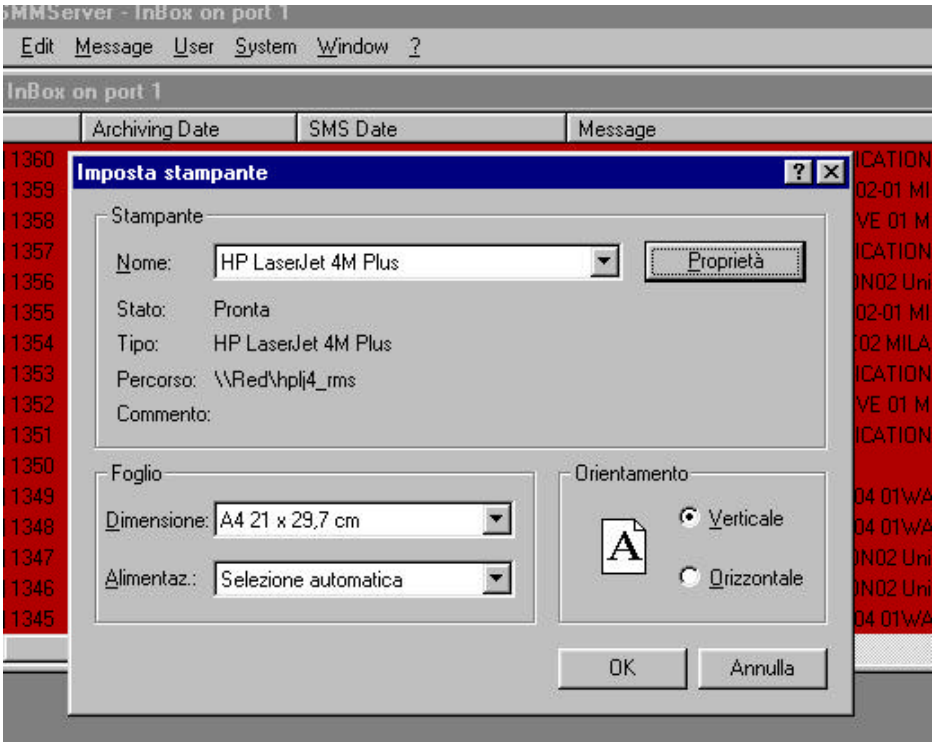
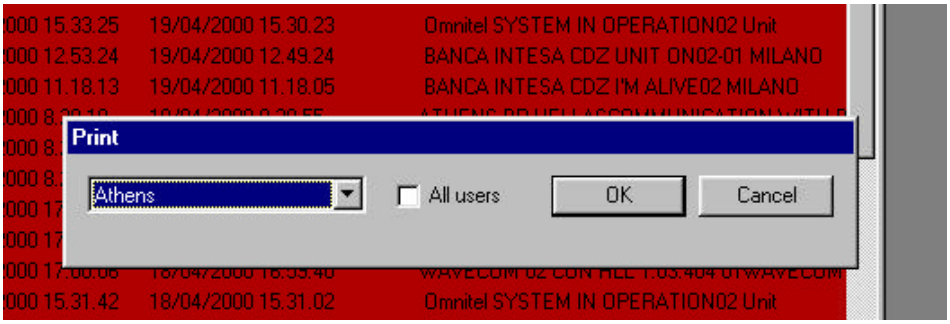


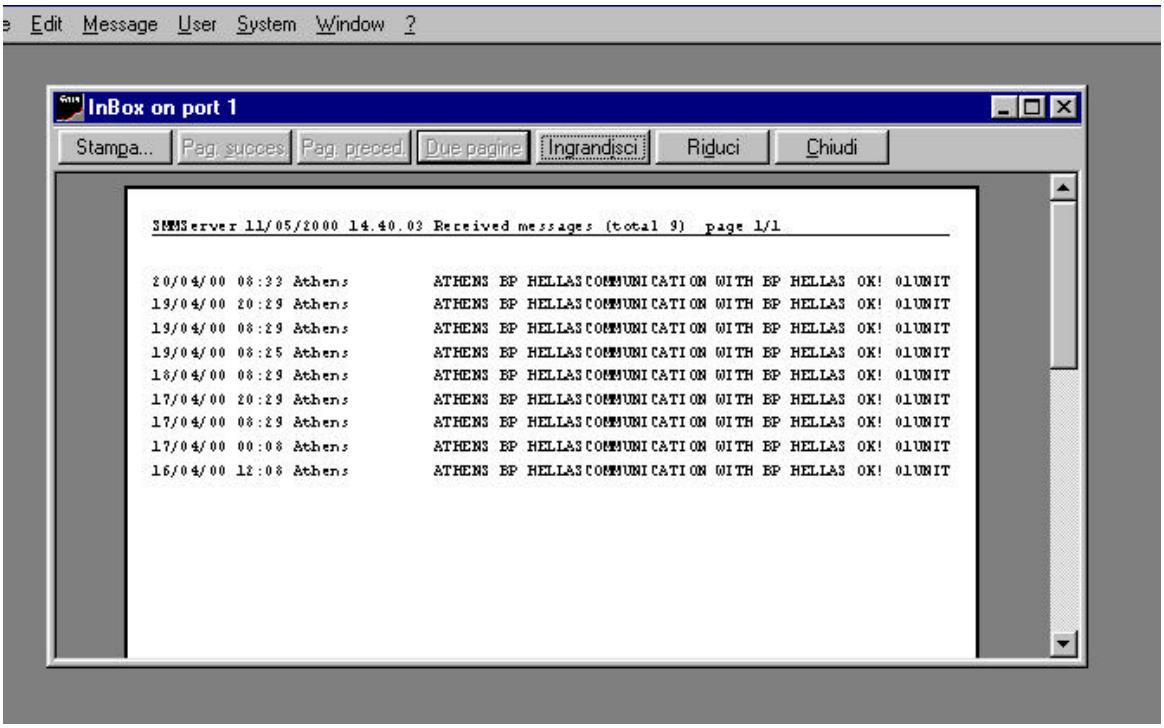
Figure12 Printer set-up

5.7.2 Print Preview

By accessing the menu File/Print Preview, you can verify on the screen your print work before it is really sent to the printer.
Such a command allows also to choose whether to print the whole content of the InBox, or to print only the messages received from one specific user.


000 15.33.25 19/04/2000 15.30.23 Omnitel SYSTEM IN OPERATION02 Unit
000 12.53.24 19/04/2000 12.49.24 BANCA INTESA CDZ UNIT ON02-01 MILANO
000 11.18.13 19/04/2000 11.18.05 BANCA INTESA CDZ I'M ALIVE02 MILANO
Print
Athens
All users
OK
Cancel
000 15.31.42 18/04/2000 15.31.02 Omnitel SYSTEM IN OPERATION02 Unit
figure13 : Printing properties

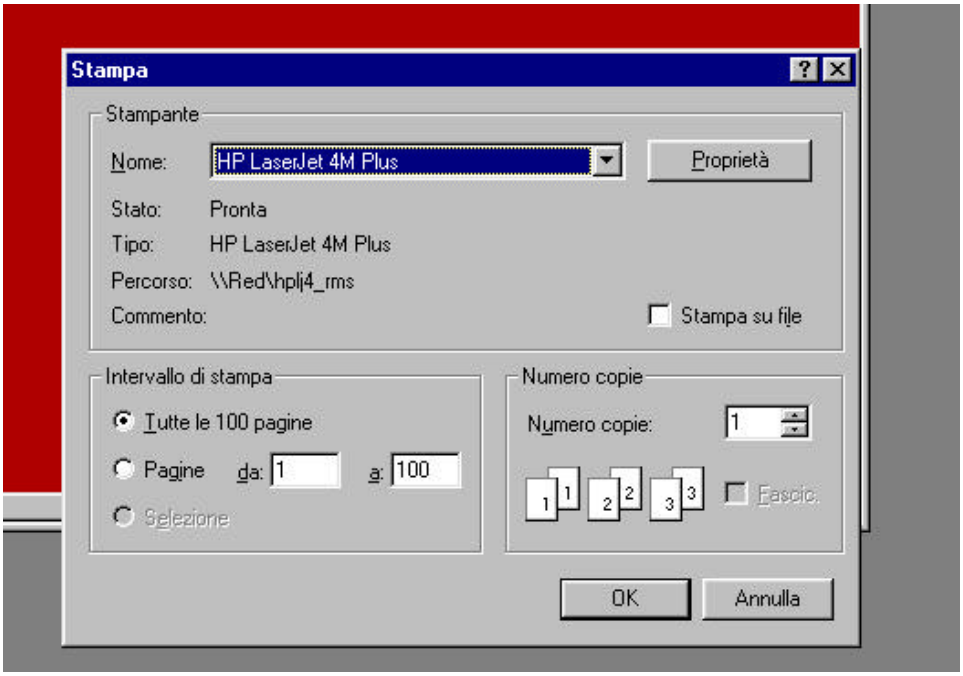
You can select a specific user from the list of available users in SMM Server (box on the left of figure13), or you can select *All users* to print the full archive of received messages.


Edit Message User System Window ?
InBox on port 1
Stampa... Pag. succes Pag. preced Due pagine Ingrandisci Riduci Chiudi
SMMServer 11/05/2000 14.40.03 Received messages (total 9) page 1/1
20/04/00 08:33 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
19/04/00 20:29 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
19/04/00 08:29 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
19/04/00 08:25 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
18/04/00 08:29 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
17/04/00 20:29 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
17/04/00 08:29 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
17/04/00 00:08 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
16/04/00 12:08 Athens ATHENS BP HELLAS COMMUNICATION WITH BP HELLAS OK! 01UNIT
Figure 14: Print preview of the messages received from the user *Athens*.

To send the Print preview to the printer, press the Print button or Close to eliminate the job and go back to the InBox.

5.7.3 Print

To print directly the archive of the received messages, you can access the menu File/Print.
Smm Server will show the following user interface:



Fill in the fields and press OK to send the print work to the printer.